Sanyo Service Tip USIK / YX6E CHASSIS

07/27/12

SYMPTOM: If the power LED on front of the TV is turning ON for 10-20 seconds, OFF for 1-2 second and keeps repeating, the problem is most likely IC5750A. Affected models are the 2009 & 2010 TVs (LCD and Plasma) listed.

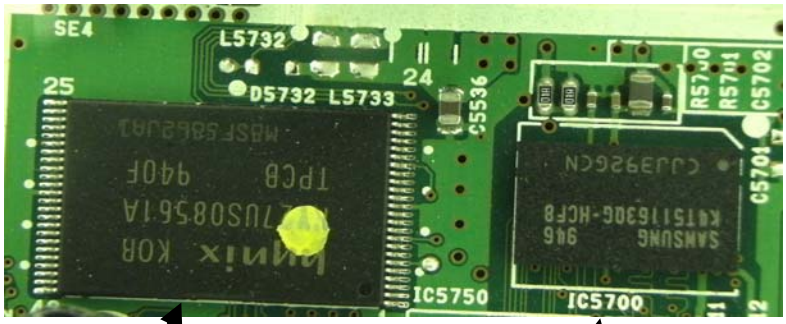
IC5750A is located under the large shield. IC 5750A is a 48 pin NAND FLASH IC with easy access for replacement. This will fix +80% of the boards with the symptom below.

Sanyo Part Number: QXXAVD058- - -M

You must use the 3 dashes when ordering this IC.

Chassis Version	IC 5700 Samsung	IC 5700 Quimonda
P37819-00	SW84	SW82
P42849-00	SW84	SW82
P42849-01	SW84	SW82
P42849-02	SW84	SW82
P42849-04	SW84	SW82
P42849-05	SW84	SW82
P46849-00	SW84	SW82
P46849-01	SW84	SW82
P46849-02	SW84	SW82
P46849-03	SW84	SW82
P46819-00	SW84	SW82
P50749-00	SW84	SW82
P50749-01	SW84	SW82
P50749-02	SW84	SW82
P50749-03	SW84	SW82
P50719-00	SW84	SW82
P52449-01	**SW85**	**SW83**
P42840-02	SW84	SW82
P42840-03	SW84	SW82
P42840-04	SW84	SW82
P46840-01	SW84	SW82
P46840-02	SW84	SW82
P50740-01	SW84	SW82

SYMPTOM: If the power LED on front of the TV is turning ON for 10-20 seconds, OFF for 1-2 second and keeps repeating, the problem is most likely IC5750A. Affected models are the 2009 & 2010 TVs (LCD and Plasma) listed.



IC5750 to be replaced

Check IC manufacture for either Samsung or Quimonda

The IC 5750A you receive will have software 84 installed in it. If IC 5700's manufacture is Quimonda or TV is a 52" then the software will need to be changed with the use of a USB drive.

Note : Only use this software in the Sanyo TVs listed. If used in wrong chassis, it could cause TV not to come on and IC 5750 will need to be changed again.

01/04/11
2010-4A

SANYO
TROUBLESHOOTING GUIDE
2010 MODELS
DP42840 / DP46840 / DP52440

This guide is divided into 4 sections/pages depending on type of defect:
page 1) No Green LED Power Light (LED never turns “ON”)
page 2) Green LED Light is “ON”, but Backlights are not “ON”, or only turn “ON & then OFF”.
page 3) Green LED Light is “ON”, and Backlights are “ON”, but there is no video/OSD.
page 4) Green LED Light turns “ON”, but turns “OFF” within 10 seconds, or LED cycles ON & OFF.

Please select the section/page that matches your defect and follow the flow chart.

These models & chassis versions are in this guide:

DP42840-00
DP42840-01
DP42840-02
DP42840-03
DP42840-04
DP42840-07

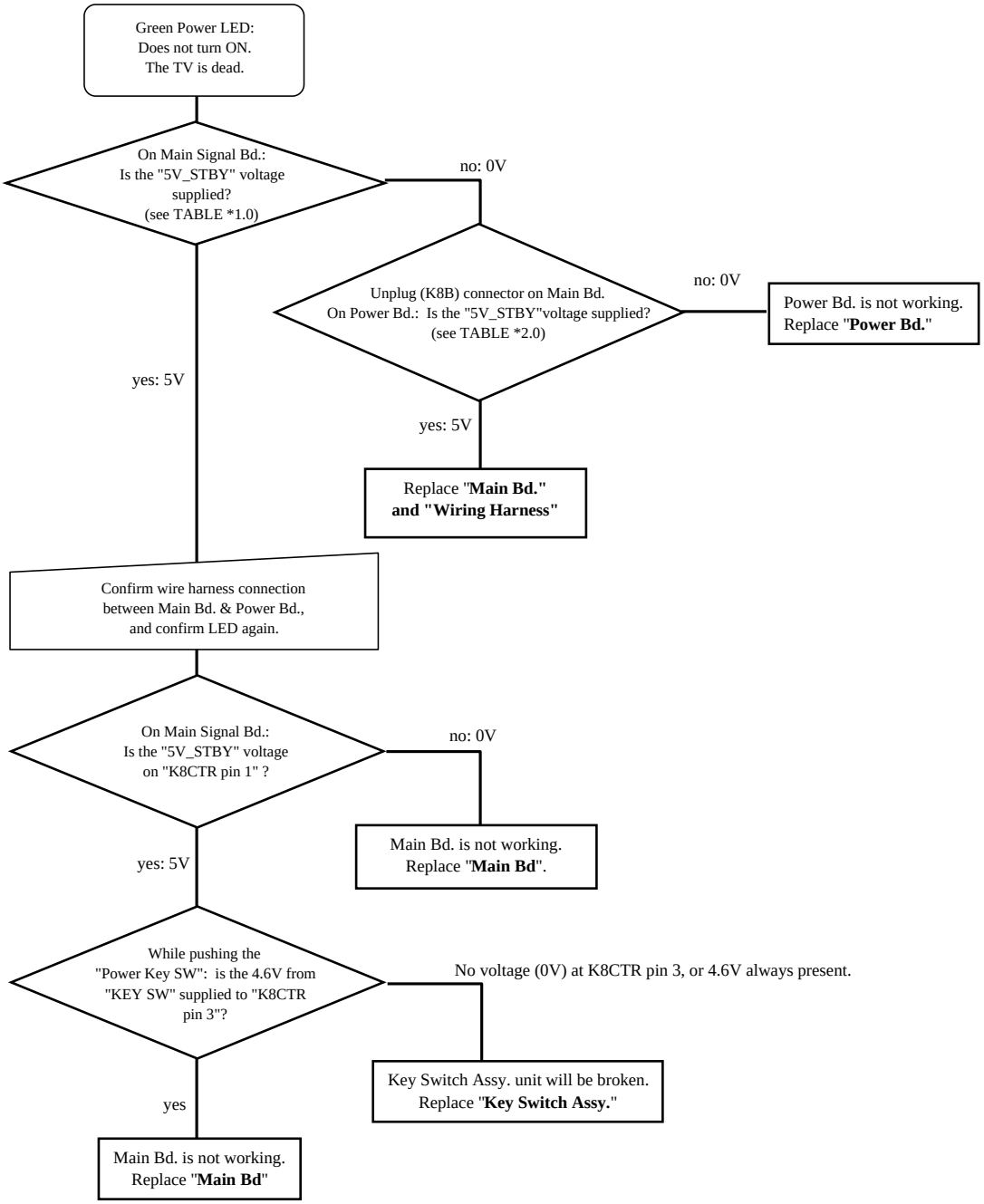
DP46840-00
DP46840-01
DP46840-02
DP46840-03

DP52440-00
DP52440-01
DP52440-02

PLEASE KEEP THIS GUIDE.
IT WILL NOT BE PROVIDED FOR EVERY REPAIR.

techsupport@sanyotv.com

Repair Flow Chart: Trouble Condition
Green Power LED does NOT turn on. The TV is dead.



(TABLE *1.0) Main Bd.: 5V_STBY Test Points

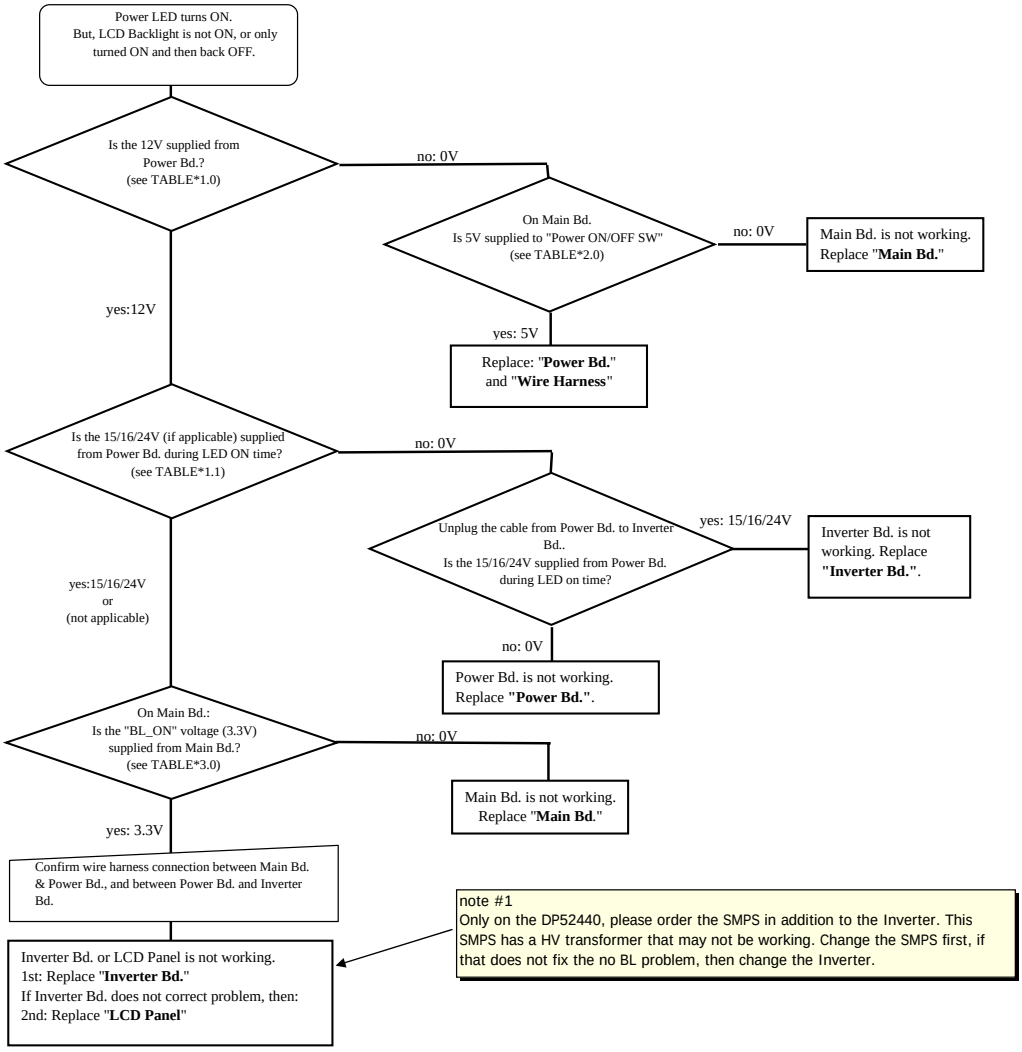
42" Models		46" Models		52" Models		5V_STBY on Main Bd.	Confirmation Voltage
DP42840-00	N7AL	DP46840-00	N7EK	DP52440-00	N7KF	Main K8B "pin 3"	5 V
DP42840-01	N7AM	DP46840-01	N7EEE	DP52440-01	N7KFE		
DP42840-02	N7AFF	DP46840-02	N7EGE	DP52440-02	N7KFF		
DP42840-03	N7AHE	DP46840-03	N7EKE				
DP42840-04	N7AJE						
DP42840-07	N7AS						

(TABLE *2.0) Power Bd.: 5V_STBY Test Points

42" Models		46" Models		52" Models		5V_STBY on Power Bd.	Confirmation Voltage
DP42840-00	N7AL	DP46840-00	N7EK			Power K6B "pin 3"	5 V
DP42840-01	N7AM	DP46840-03	N7EKE				
DP42840-07	N7AS						
DP42840-02	N7AFF	DP46840-01	N7EEE	DP52440-00	N7KF	Power CN2 "pin 3"	5 V
DP42840-03	N7AHE	DP46840-02	N7EGE	DP52440-01	N7KFE		
DP42840-04	N7AJE			DP52440-02	N7KFF		

Repair Flow Chart: Trouble Condition

Green Power LED is on, but LCD backlights are not on.
Backlights do not turn on, or only turn on and back off.



(TABLE *1.0) 12V Test Points

42" Models		46" Models		52" Models		12V on Main Bd.	Confirmation Voltage
DP42840-00	N7AL	DP46840-00	N7EK	DP52440-00	N7KF	Main K8B "pin 8"	12 V
DP42840-01	N7AM	DP46840-01	N7EEE	DP52440-01	N7KFE		
DP42840-02	N7AFF	DP46840-02	N7EGE	DP52440-02	N7KFF		
DP42840-03	N7AHE	DP46840-03	N7EKE				
DP42840-04	N7AJE						
DP42840-07	N7AS						

(TABLE *1.1) 15 / 16 / 24V Test Points

42" Models		46" Models		52" Models		15 / 16 / 24V on Power Bd	Confirmation Voltage
DP42840-00	N7AL	DP46840-00	N7EK			Power K605 "pin 1"	24 V
DP42840-01	N7AM	DP46840-03	N7EKE				
DP42840-07	N7AS						
DP42840-03	N7AHE					Power CN4 "pin 1"	24 V
DP42840-04	N7AJE						
DP42840-02	N7AFF	DP46840-01	N7EEE	DP52440-00	N7KF	Power CN2 "pin 12"	42" & 46" = 16V , 52=15 V
		DP46840-02	N7EGE	DP52440-01	N7KFE		
				DP52440-02	N7KFF		

(TABLE *2.0) Main Bd.: "Power ON/OFF SW" Test Points

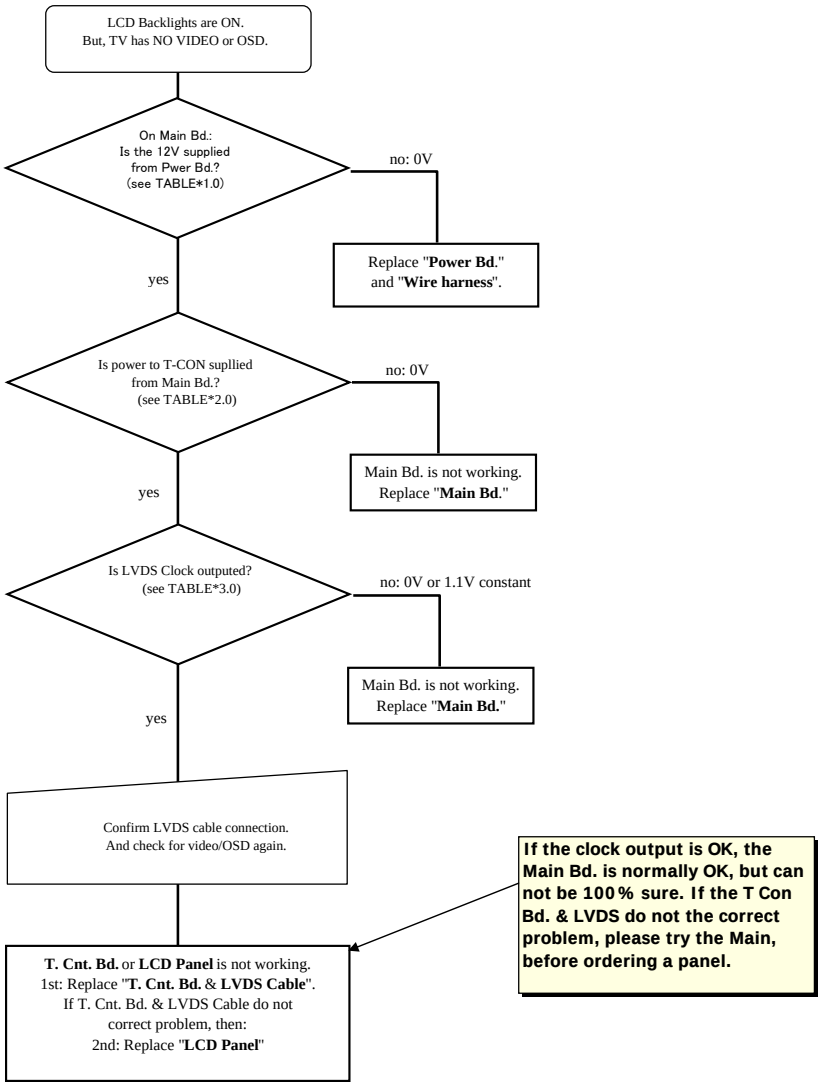
42" Models		46" Models		52" Models		12V on Main Bd.	Confirmation Voltage
DP42840-00	N7AL	DP46840-00	N7EK	DP52440-00	N7KF	Main K8B "pin 1"	5 V
DP42840-01	N7AM	DP46840-01	N7EEE	DP52440-01	N7KFE		
DP42840-02	N7AFF	DP46840-02	N7EGE	DP52440-02	N7KFF		
DP42840-03	N7AHE	DP46840-03	N7EKE				
DP42840-04	N7AJE						
DP42840-07	N7AS						

(TABLE *3.0) Main Bd.: "BL_ON" Test Points

42" Models		46" Models		52" Models		BL_ON Command - Main	Confirmation Voltage
DP42840-00	N7AL	DP46840-00	N7EK	DP52440-00	N7KF	Main K8L "pin 3"	2.3 - 3.3 V
DP42840-01	N7AM	DP46840-01	N7EEE	DP52440-01	N7KFE		
DP42840-02	N7AFF	DP46840-02	N7EGE	DP52440-02	N7KFF		
DP42840-03	N7AHE	DP46840-03	N7EKE				
DP42840-04	N7AJE						
DP42840-07	N7AS						

Repair Flow Chart: Trouble Condition

Green Power LED and LCD backlights are on, but no video or OSD.



(TABLE *1.0) Main Bd.: 12V Test Points

42" Models		46" Models		52" Models		12V on Main Bd.	Confirmation Voltage
DP42840-00	N7AL	DP46840-00	N7EK	DP52440-00	N7KF	Main K8B "pin 8"	12 V
DP42840-01	N7AM	DP46840-01	N7EEE	DP52440-01	N7KFE		
DP42840-02	N7AFF	DP46840-02	N7EGE	DP52440-02	N7KFF		
DP42840-03	N7AHE	DP46840-03	N7EKE				
DP42840-04	N7AJE						
DP42840-07	N7AS						

(TABLE *2.0) Main Bd.: "T-CON Power Supply" Test Points

42" Models		46" Models		52" Models		12V on Main Bd..	Confirmation Voltage
DP42840-00	N7AL	DP46840-00	N7EK	DP52440-00	N7KF	Main K5LV "pin 30"	12 V
DP42840-01	N7AM	DP46840-01	N7EEE	DP52440-01	N7KFE		
DP42840-02	N7AFF	DP46840-02	N7EGE	DP52440-02	N7KFF		
DP42840-03	N7AHE	DP46840-03	N7EKE				
DP42840-04	N7AJE						
DP42840-07	N7AS						

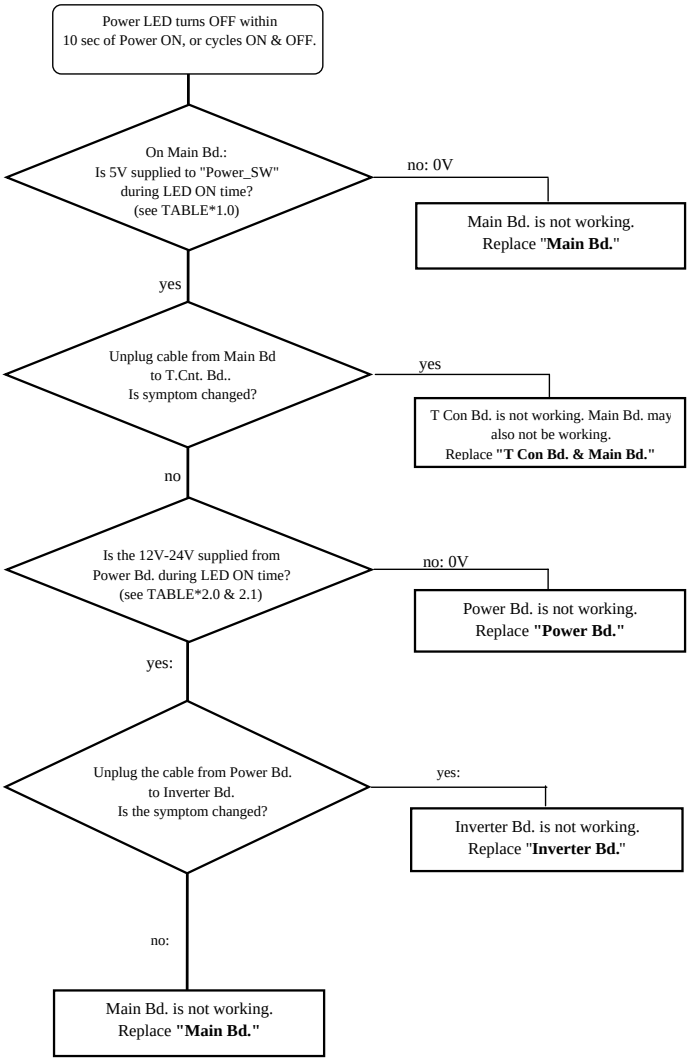
(TABLE *3.0) Main Bd.: "LVDS Clock" Test Points

42" Models		46" Models		52" Models		LVDS Clock on Main Bd.	Confirmation Voltage
DP42840-00	N7AL	DP46840-00	N7EK	DP52440-00	N7KF	K5LV pin #33: Clock -	Waveform will be
DP42840-01	N7AM	DP46840-01	N7EEE	DP52440-01	N7KFE	K5LV pin #35: Clock +	200 - 450 mV
DP42840-02	N7AFF	DP46840-02	N7EGE	DP52440-02	N7KFF		74.25 MHz
DP42840-03	N7AHE	DP46840-03	N7EKE				range = 10-20ns/div
DP42840-04	N7AJE						
DP42840-07	N7AS						

note: The bandwidth of the oscilloscope and probe must be at least 100 MHZ or higher to check if the clock pluse exists

Repair Flow Chart: Trouble Condition

Power LED turns OFF within 10 sec of Power ON, or LED cycles ON & OFF.



(TABLE *1.0) Main Bd.: "Power ON/OFF SW" Test Points

42" Models		46" Models		52" Models		12V on Main Bd.	Confirmation Voltage
DP42840-00	N7AL	DP46840-00	N7EK	DP52440-00	N7KF	Main K8B "pin 1"	5 V
DP42840-01	N7AM	DP46840-01	N7EEE	DP52440-01	N7KFE		
DP42840-02	N7AFF	DP46840-02	N7EGE	DP52440-02	N7KFF		
DP42840-03	N7AHE	DP46840-03	N7EKE				
DP42840-04	N7AJE						
DP42840-07	N7AS						

(TABLE *2.0) 12V Test Points

42" Models		46" Models		52" Models		12V on Main Bd.	Confirmation Voltage
DP42840-00	N7AL	DP46840-00	N7EK	DP52440-00	N7KF	Main K8B "pin 8"	12 V
DP42840-01	N7AM	DP46840-01	N7EEE	DP52440-01	N7KFE		
DP42840-02	N7AFF	DP46840-02	N7EGE	DP52440-02	N7KFF		
DP42840-03	N7AHE	DP46840-03	N7EKE				
DP42840-04	N7AJE						
DP42840-07	N7AS						

(TABLE *2.1) 15/16/24V Test Points

42" Models		46" Models		52" Models		15 / 16 / 24V on Power Bd	Confirmation Voltage
DP42840-00	N7AL	DP46840-00	N7EK			Power K605 "pin 1"	24 V
DP42840-01	N7AM	DP46840-03	N7EKE				
DP42840-07	N7AS						
DP42840-03	N7AHE					Power CN4 "pin 1"	24 V
DP42840-04	N7AJE						
DP42840-02	N7AFF	DP46840-01	N7EEE	DP52440-00	N7KF	Power CN2 "pin 12"	42" & 46" =16 V , 52=15 V
		DP46840-02	N7EGE	DP52440-01	N7KFE		
				DP52440-02	N7KFF		

Notice

SANYO

☐ CORRECTION ☐ SERVICE FLASH ● PRODUCTION CHANGE ☐ ADD INFORMATION

FILE NO.

REVISION 0

Please add this notice to the Service Manual listed below.

Category: **COLOR TELEVISION** Date: **SEPTEMBER / 08 / 2010**

Model: **DP46840** Effective from : Chassis No. **P46840-01**

Destination: **U.S.A. / CANADA** REF : **No. SM780172-01**

NOTE: Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual. **If the Service Manual Chassis No. does not match the unit's,** additional Service Literature is required. This chassis is similar to Chassis No. P46849-00. Only the **difference** Service Information is given in this manual. For detailed Service Information, refer to the **Original** Service Manual and **Notices** for Chassis No. P46849-00 used in Model DP46849 (SM7800160).

SERVICING SHOULD BE PERFORMED BY ONLY TRAINED AND QUALIFIED SERVICE PERSONNEL.

1. IN THE SERVICE ADJUSTMENTS

The are no changes.

2. IN THE CHASSIS ELECTRICAL PARTS LIST MISCELLANEOUS

The are no changes.

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For parts or service contact:

Sanyo Manufacturing Corporation
P.O. Box 2000
3333 Sanyo Road
Forrest City, Arkansas 72335-2000

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Published in Mexico

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REFERENCE No. SM780172-01